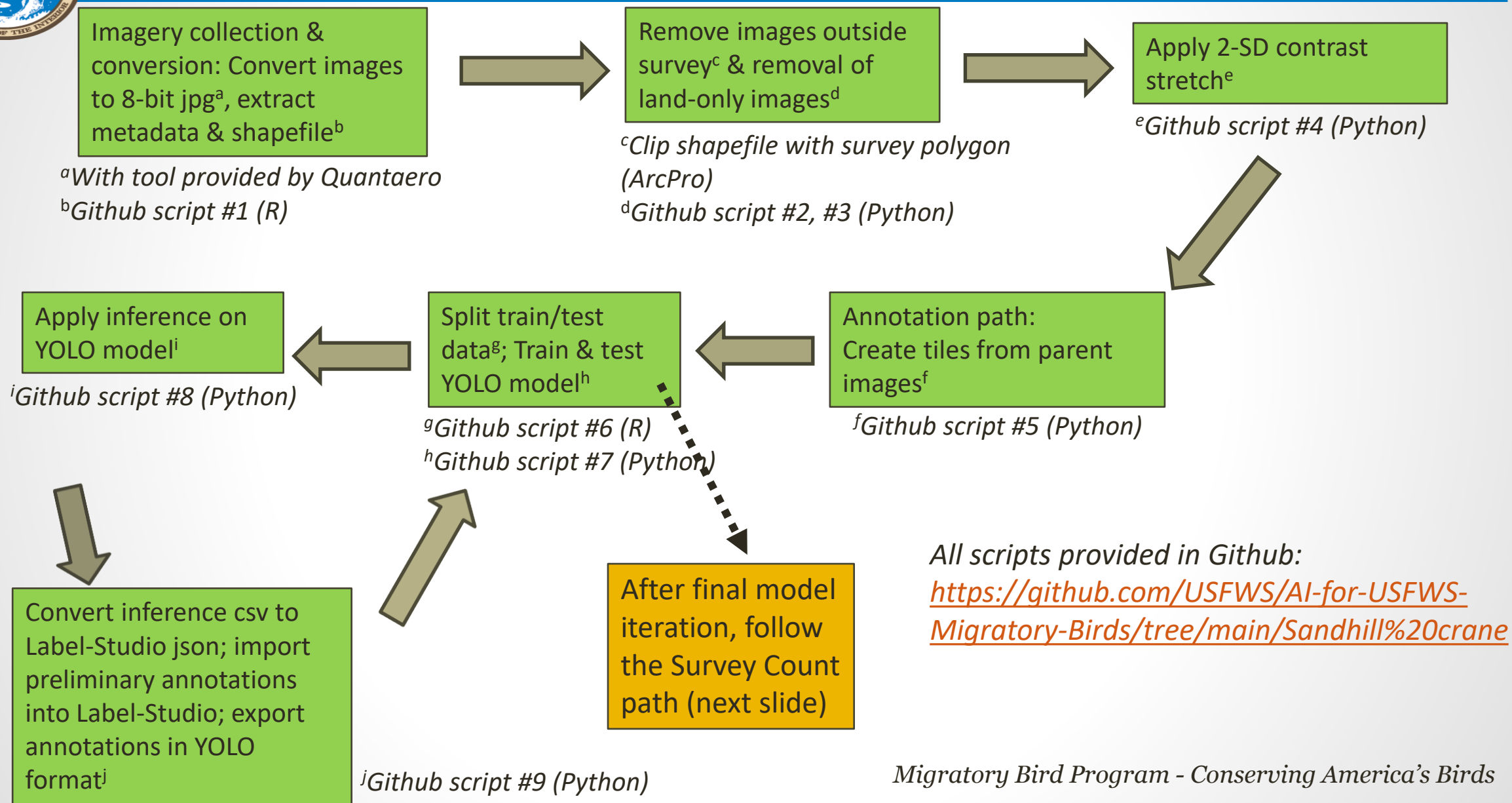




Sandhill Crane: Thermal Imagery Workflow





Sandhill Crane: Survey Count Workflow

Run YOLO detection model inference on individual images^k

^kGithub script #8 (Python)



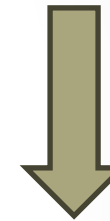
For images with > 5 sandhill cranes predicted, orthorectify/
mosaic images^l

^lPosPAC Post-processing of POS data, then
Github script #10 (Linux)



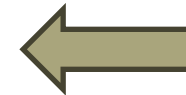
Run YOLO detection model inference on mosaics^m

^mGithub script #8 (Python)

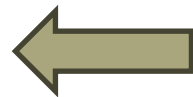


Plot spatial locations of sandhill cranes, ducks/geeseⁿ

ⁿGithub script #11 (Python)



Determine final counts



Calculate near distances; remove all predicted birds > 50 m from nearest neighbor; manually review mosaics & remove extraneous data (i.e., predictions on land)^o

^oConducted in ArcPro